

## ABSTRACT OF THE DISCLOSURE

Methods, systems, and computer program products that automatically generate and track undo information so that the developer of a user interface object need not be responsible for generating and tracking undo information. Change notifications for changes to an object within a visual user interface designer are processed. Data representing an initial state of the object prior to the changes and data representing a subsequent state of the object after the changes is persisted. From the persisted data, an undo unit is prepared for undoing the changes to the object. The undo unit may comprise a transaction of multiple changes made to the object. Each undo unit may identify corresponding routines for undoing and redoing the actions included within the undo unit. An undo unit may be stored until an undo/redo notification is received, and then used to undo/redo the changes represented by the undo unit.

WORKMAN, NYDEGGER & SEELEY  
A PROFESSIONAL CORPORATION  
ATTORNEYS AT LAW  
1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111

W:\13768\407\KC0000001309\V001.doc